



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 10

Complete if Known

Application Number	10/715,810
Filing Date	November 17, 2003
First Named Inventor	Shengwen Li
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	ALLE0004-100 (17614(BOT))

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
CMK	AA	US-6,458,365	10/01/2002	Aoki et al	
	AB	US- 5,766,605	06/16/1998	Sanders et al	
	AC	US- 5,714,468	02/03/1998	Dao	
	AD	US- 6,464,986	10/15/2002	Aoki et al	
	AE	US- 6,113,915	09/05/2000	Aoki et al	
	AF	US- 6,306,403	10/23/2001	Donovan	
	AG	US- 6,289,893	10/09/2001	Schwartz et al	
	AH	US- 5,670,484	09/23/1997	Binder	
	AI	US- 6,423,319	07/23/2002	Brooks et al	
	AJ	US- 6,139,845	10/31/2000	Donovan	
	AK	US- 6,143,306	11/07/2000	Donovan	
	AL	US- 5,437,291	08/01/1995	Pasricha et al	
	AM	US- 6,365,164	04/02/2002	Schmidt	
	AN	US- 6,063,768	05/16/2000	First	
	AO	US- 6,395,277	05/28/2002	Graham	
	AP	US- 6,265,379	07/24/2001	Donovan	
	AQ	US- 6,358,513	03/19/2002	Voet et al	
	AR	US- 6,328,977	12/11/2001	Donovan	
	AS	US- 6,306,423	10/23/2001	Donovan	
	AT	US- 6,312,708	11/08/2001	Donovan	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
CMK	EE	WO02/089834	11/04/02	Imperial College Inovations		

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APR 12 2004

PTO/SB/08a (05-03)

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Sheet	2	of	10
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U.S. PATENT DOCUMENTS

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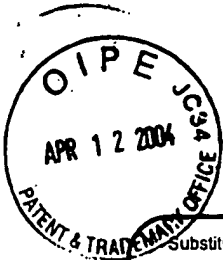
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CHK	AU	PARK and SIMPSON, "Inhalational poisoning by botulinum toxin and inhalation vaccination with its heavy-chain component," Infect. Immun. (2003) 71:1147-1154.	
	AV	ATASSI and OSHIMA, "Structure, activity and immune (T and B cell) recognition of botulinum neurotoxins," Crit. Rev. Immunol. (1999) 19:219-260.	
	AW	MARCHESE RAGONA, et al., "Management of parotid sialoceles with botulinum toxin," The Laryngoscope (1999) 109:1344-1346.	
	AX	WIEGAND, et al., "125-I labelled botulinum A neurotoxin: pharmacokinetics in cats after intramuscular injection," Naunyn-Schmiedeberg's Arch. Pharmacol. (1976) 282:161-165.	
	AY	HABERMANN, "125-I labeled neurotoxin from Clostridium botulinum A: preparation, binding to synaptosomes and ascent to the spinal cord," Naunyn-Schmiedeberg's Arch. Pharmacol. (1974) 281:47-58.	
	AZ	MOYER, et al., "Botulinum Toxin Type B: Experimental and Clinical Experience," in Therapy with Botulinum Toxin, Jankovic, ed., 1994, pp 71-84.	
	BA	GONELLE-GISPERT, "SNAP-25a and -25b isoforms are both expressed in insulin secreting cells and can function in insulin secretion," Biochem. J. (1999) 339:159-165.	
	BB	International Conference on Botulinum Toxin: Basic Science and Clinical Therapeutics," Mov. Disord. (1995) 10:381-408.	
	BC	HABERMAN, et al., "Tetanus toxin and botulinum A and C neurotoxins inhibit noradrenaline release from cultured mouse brain," J. Neurochem. (1988) 51:522-527.	
	BD	SANCHEZ-PRIETO, et al., "Botulinum toxin A blocks glutamate exocytosis from guinea pig cerebral cortical synaptosomes," Eur. J. Biochem. (1987) 165:675-681.	
CHK	BE	PEARCE, "Pharmacologic characterization of botulinum toxin for basic science and medicine," Toxicon (date) 35:1373-1412.	

Examiner
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Considered

2/16/05

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CMK	BF	BIGALKE, et al., "Botulinum A neurotoxin inhibits non-cholinergic synaptic transmission in mouse spinal cord neurons in culture," Brain Res. (1985) 360:318-324.	
	BG	HABERMANN, "Inhibition by tetanus and botulinum A toxin of the release of [3H] noradrenaline and [3H] GABA from rat brain homogenate," Experientia (1988) 44:224-226.	
	BH	BIGALKE, et al., "Tetanus toxin and botulinum A toxin inhibit release and uptake of various transmitters as studied with particulate preparations from rat brain and spinal cord," Naunyn-Schmiedelberg's Arch. Pharmacol. (1981) 316:244-251.	
	BI	JANCOVIC, et al., eds., "Therapy with Botulinum Toxin," New York, Marcel Dekkar, 1994. p.5.	
	BJ	SCHANTZ, et al., "Properties and use of botulinum toxin and other microbial neurotoxins in medicine," Microbial Rev. (1992) 56:80-99.	
	BK	SLOOP, et al., "Reconstituted botulinum toxin type A does not lose potency in humans if it is refrozen or refrigerated for two weeks before use," Neurology (1997) 48:249-253.	
	BL	GALBIATI, et al., "Identification, sequence and developmental expression of invertebrate flotillins from Drosophila melanogaster," Gene (1998) 210:229-237.	
	BM	LI, et al., "Src tyrosine kinases, Galpha subunits, and H-ras share a common membrane-anchored scaffolding protein, caveolin," J. Biol. Chem. (1996) 271:29182-29190.	
	BN	ISHIZAKA, et al., "Angiotensin II tyhpe receptor: Relationship with caveolae and caveolin after initial agonist simulation," Hypertension (1998) 32:459-466.	
	BO	JU, et al., "Inhibitory interactions of the bradykinin B2 receptor with endothelial nitric-acid synthase," J. Biol. Chem. (1998) 273:24025-24029.	
CMK	BP	WEBB, et al., "SR-BII, an isoform of the scavenger receptor BI containing an alternate cytoplasmic tail, mediates lipid transfer between high density lipoprotein and cells," J. Biol. Chem. (1998) 273:15241-15248.	

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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CMK	BQ	DRAB, et al., "Loss of caveolae, vascular dysfunction, and primary defects in caveolin-1 gene-disrupted mice," Science (2001) 293:2449-2452.	
	BR	BOUILLLOT, et al., "Axonal amyloid precursor protein expressed by neurons in vitro is present in a membrane fraction with caveolae-like properties," J. Biol. Chem. (1996) 271:7640-7644.	
	BS	RAZANI, et al., "Caveolae: From cell biology to animal physiology," Pharmacol. Rev. (2002) 54:431-467.	
	BT	LI, et al., "Phosphorylation of caveolin by src tyrosine kinases," J. Biol. Chem. (1996) 271:3863-3868.	
	BU	RAZANI and LISANTI, "Caveolin-deficient mice: insights into caveolar function and human disease," J. Clin. Invest. (2001) 108:1553-1561.	
	BV	GARCIA-CARDENA, et al., "Dissecting the interaction between nitric oxide synthase (NOS) and caveolin," J. Biol. Chem. (1997) 272:25437-25440.	
	BW	SOTGIA, et al., "Intracellular retention of glycoposphatidylinositol-linked proteins in caveolin-deficient cells," Mol. Cell. Biol. (2002) 22:3905-3926.	
	BX	FRANK, et al., "Influence of caveolin-1 on cellular cholesterol efflux mediated by high-density lipoproteins," Am. J. Physiol. Cell Physiol. (2001) 280:C1204-C1214.	
	BY	GALBIATI, et al., "Caveolin-1 expression negatively regulates cell cycle progression by inducing G0/G1 arrest via a p53/p21WAF1/Cip1-dependent mechanism," Mol. Biol. Cell. (2001) 12:2229-2244.	
	BZ	FRANK, et al., "Adenovirus-mediated expression of cavolin-1 in mouse liver increases plasma high-density lipoprotein levels," Biochemistry (2001) 40:10892-10900.	
CMK	CA	LEE, et al., "Src-induced phosphorylation of caveolin-2 on tyrosine 19," J. Biol. Chem. (2002) 277:34556-34567.	

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CMK	CB	COUET, et al., "Identification of peptide and protein ligands for the caveolin-scaffolding domain," J. Biol. Chem. (1997) 272:6525-6533.	
	CC	LEE, et al., "Constitutive and growth factor-regulated phosphorylation of caveolin-1 occurs at the same site (Tyr-14) in vivo: identification of a c-src/cav-1/grb7 signalling cassette," Mol. Endocrinol. (2000) 14:1750-1775.	
	CD	SATO, et al., "Reconstitution of src-dependent phospholipase Cgamma phosphorylation and transient calcium release by using membrane rafts and cell-free extracts from Xenopus eggs," J. Biol. Chem. (2003) 278:38413-38420.	
	CE	GARGALOVIC and DORY, "Cellular apoptosis is associated with increased caveolin-1 expression in macrophages," J. Lipid Res. (2003) 44:1622-1632	
	CF	HAMER, et al., "Rational design of drugs that induce human immunodeficiency virus replication," J. Virol. (2003) 77:10227-10236.	
	CG	McINTOSH, et al., "Targeting endothelium and its dynamic caveolae for tissue-specific transcytosis in vivo: a pathway to overcome cell barriers to drug and gene delivery," Proc. Natl. Acad. Sci. USA (2002) 99:1996-2001	
	CH	LI, et al., "Baculovirus-based expression of mammalian caveolin in Sf21 insect cells," J. Biol. Chem. (1996) 271:28647-28654.	
	CI	LI, et al., "Expression and characterization of recombinant caveolin," J. Biol. Chem. (1996) 271:568-573.	
	CJ	DOBROSOTSKAYA, et al., "Reconstitution of sterol-regulated endoplasmic reticulum-to-Golgi transport of SREBP-2 in insect cells by co-expression of mammalian SCAP and insigs," J. Biol. Chem. (2003) 278:35837-35843.	
	CK	SCHNITZER, et al., "Endothelial caveolae have the molecular transport machinery for vesicle budding, docking, and fusion including VAMP, NSF, SNAP, annexins and GTPases," J. Biol. Chem. (1995) 270:14399-14404.	
CMK	CL	HAYASHI, et al., "Amyloid precursor protein in unique cholesterol-rich microdomains different from caveolae-like domains," Biochim. Biophys. Acta (2000) 1483:81-90.	

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CMK	CM	BANWAIT, et al., "Role of nitric acid in beta(3)-adrenoreceptor activation on basal tone of internal anal sphincter," Am. J. Physiol.-Gastroint. Liver Physiol. (2003) 285:G547-G555.	
	CN	McLOON and CHRISTIANSEN, "Increasing extraocular muscle strength with insulin-like growth factor," Investig. Ophthalmol. Visual Sci. (2003) 44:3866-3872.	
	CO	CARVER and SCHNITZER, "Caveolae: mining little caves for new cancer targets," Nature Reviews Cancer (2003) 3:571-581.	
	CP	SCHNITZER, "Caveolae: from basic trafficking mechanisms to targeting transcytosis for tissue-specific drug and gene delivery in vivo," Adv. Drug. Deliv. Rev. (2001) 28:265-280.	
	CQ	McINTOSH and SCHNITZER, "Caveolae require intact VAMP for targeted transport in vascular endothelium," Am. J. Physiol. (1999) 277:H2222-H2232.	
	CR	LEE, et al., "Tumor cell growth inhibition by caveolin re-expression in human breast cancer cells," Oncogene (1998) 16:1391-1397.	
	CS	PAJVANI, et al., "Structure-function studies of the adipocyte-secreted hormone Acrp30/adiponectin. Implications for metabolic regulation and bioactivity," J. Biol. Chem. (2003) 278:9073-9085.	
	CT	MYNARCIK, et al., "Adiponectin and leptin levels in HIV-infected subjects with insulin resistance and body fat redistribution," J. Acquir. Immun. Defic. Syndr. (2002) 31:514-520.	
	CU	RAJALA, et al., "Adipose-derived resistin and gut-derived resistin-like molecule-beta selectively impair insulin action on glucose production," J. Clin. Invest. (2003) 11:225-230.	
	CV	MENZAGHI, et al., "A haplotype at the adiponectin locus is associated with obesity and other features of the insulin resistance syndrome," Diabetes (2002) 51:2306-2312.	
CMK	CW	IYENGAR, et al., "Adipocyte-secreted factors synergistically promote mammary tumorigenesis through induction of anti-apoptotic transcriptional programs and proto-oncogene stabilization," Oncogene (2003) 22:6408-6423.	

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Sheet	8	of	10

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CMK	CX	COHEN, et al., "Role of caveolin and caveolae in insulin signaling and diabetes," Am. J. Physiol. Endocrinol. Metab. (2003) 285:E1151-E1160.	
	CY	KRATCHMAROVA, et al., "A proteomic approach for identification of secreted proteins during the differentiation of 3T3-L1 preadipocytes to adipocytes," Mol. Cell. Proteomics (2002) 1:213-222.	
	CZ	COMBS, et al., "Induction of adipocyte complement-related protein of 30 kilodaltons by PPARgamma agonists: a potential mechanism of insulin sensitization," Endocrinology (2002) 143:998-1007.	
	DA	BERG, et al., "ACRP30/adiponectin: an adipokine regulating glucose and lipid metabolism," Trends Endocrinol. Metab. (2002) 13:84-89.	
	DB	COMBS, et al., "Endogenous glucose production is inhibited by the adipose-derived protein Acrp30," J. Clin. Invest. (2001) 108:1875-1881.	
	DC	RAZANI, et al., "Caveolin-1-deficient mice are lean, resistant to diet-induced obesity, and show hypertriglyceridemia with adipocyte abnormalities," J. Biol. Chem. (2002) 277:8635-8647.	
	DD	SHIN, et al., "Involvement of cellular caveolae in bacterial entry into mast cells," Science (2000) 289:785-788.	
	DE	BURGUENO, et al., "Metabotropic glutamate type 1alpha receptor localizes in low-density caveolin-rich plasma membrane fractions," J. Neurochem. (2003) 86:785-791.	
	DF	TANG, et al., "Expression of metabotropic glutamate receptor 1alpha in the hippocampus of rat pilocarpine model of status epilepticus," Epilepsy Res. (2001) 46:179-189.	
	DG	CIRUELA, et al., "Metabotropic glutamate 1alpha and adenosine A1 receptors assemble into functionally interacting complexes," J. Biol. Chem. (2001) 276:18345-18351.	
CMK	DH	ZHANG, et al., "Localization and regulation of the delta-opioid receptor in dorsal root ganglia and spinal cord of the rat and monkey: evidence for association with the membrane of large dense-core vesicles," Neuroscience (1998) 82:1225-1242.	

Examiner Signature		Date Considered	2/16/05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 9 of 10

Complete if Known

Application Number	10/715,810
Filing Date	November 17, 2003
First Named Inventor	Shengwin Li
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	ALLE0004-100 (17614(BOT))

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CMK	DI	SKOFF, et al., "Nerve growth factor (NF) and glial cell line-derived neurotrophic factor (GDNF) regulate substance P release in adult spinal sensory neurons," Neurochem. Res. (2003) 28:847-854.	
	DJ	SCHAIBLE, et al., "Mechanisms of pain in arthritis," Ann. NY Acad. Sci. (2002) 966:343-354.	
	DK	XU, et al., "On the role of galanin, substance P and other neuropeptides in primary sensory neurons of the rat: studies on spinal reflex excitability and peripheral axotomy," Eur. J. Neurosci. (1990) 2:733-743.	
	DL	TREVISANI, et al., "Ethanol elicits and potentiates nociceptor responses via the vanilloid receptor," Nat. Neurosci. (2002) 5:546-551.	
	DM	MALCANGIO, et al., "A novel control mechanism based on GDNF modulation of somatostatin release from sensory neurones," FASEB J. (2002) 16:730-732.	
	DN	SOUTHALL, et al., "Twenty-four hour exposure to prostaglandin down regulates prostanoid receptor binding but does not alter PGE(2)-mediated sensitization or rat sensory neurons," Pain (2002) 96:285-296.	
	DO	MARVIZON, et al., "Neurokinin 1 receptor internalization in spinal cord slices induce by dorsal root stimulation is mediated by NMDA receptors," J. Neurosci. (1997) 17:8129-8138.	
	DP	MORIOKA, et al., "Interleukin-1beta-induced substance P release from rat cultured primary afferent neurons driven by two phospholipase A2 enzymes: secretory type IIA and cystolic type IV," J. Neurochem. (2002) 80:989-997.	
	DQ	ALLEN, et al., "Noxious cutaneous thermal stimuli induce a graded release of endogenous substance P in the spinal cord: imaging peptide action in vivo," J. Neurosci. (1997) 17:5921-5927.	
	DR	HARRIS, et al., "Expression of caveolin by bovine lymphocytes and antigen-presenting cells," Immunology (2002) 105:190-195.	
CMK	DS	SHIN and ABRAHAM, "Glycosylphosphatidylinositol-anchored receptor-mediated bacterial endocytosis," FEMS Microbiol. Lett. (2001) 197:131-138.	

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CHK	DT	FIELD, et al., "Fc epsilon RI-mediated recruitment of p53/56lyn to detergent resistant membrane domains accompanies cellular signalling," Proc. Natl. Acad. Sci. USA (1995) 92:9201-9205.	
	DU	BAIG, et al., "Agonist activated adrenocorticotropin receptor internalizes via a clathrin-mediated G protein receptor kinase dependent mechanism," Endocrin. Res. (2002) 28:281-289.	
	DV	KOHNO, et al., "N-glycans of sphingosine 1-phosphate receptor Edg-1 regulate ligand-induced receptor internalization," FASEB J. (2002) 16:983-992.	
	DW	DALE, et al., "Agonist-stimulated and tonic internalization of metabotropic glutamate receptor 1a in human embryonic kidney 293 cells: agonist-stimulated endocytosis is beta-arrestin 1 isoform-specific," Mol. Pharmacol. (2001) 60:1243-1253.	
	DX	OSTROM, et al., "Receptor number and caveolar co-localization determine receptor coupling efficiency to adenylyl cyclase," J. Biol. Chem. (2001) 276:42063-42069.	
	DY	OSTROM, et al., "Stoichiometry and compartmentation in G protein-coupled receptor signalling: implications for therapeutic interventions involving G(s)," J. Pharmacol. Exp. Ther. (2000) 294:407-412.	
	DZ	RIDDELL, et al., "Compartmentalization of beta-secretase (Asp20 into low-bouyant density, noncaveolar lipid rafts," Curr. Biol. (2001) 11:1288-1293.	
	EA	ROUVINSKI, et al., "Both raft- and non-raft proteins associate with CHAPS-insoluble complexes: some APP in large complexes," Biochem. Biophys. Res. Comm. (2003) 308:750-758.	
CHK	EB	IKEZU, et al., "Caveolae, plasma membrane microdomains for alpha-secretase-mediated processing of the amyloid secretory protein," J. Biol. Chem. (1998) 273:10485-10495.	

Examiner Signature		Date Considered	9/16/05
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